

Declass Review by NIMA / DoD

1 August 1961

MEMORANDUM FOR: Chief, Technical Plans and Development Staff

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SUBJECT: Trip Report of [REDACTED]
25-26 July 1961

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1. On 25 July 1961, the undersigned visited [REDACTED] for the purpose of discussing a high resolution duplication printing system. Present at the meeting were [REDACTED]. In order to reproduce or duplicate through several generations, the take from a high resolution system (200 l/mm or more), two basic approaches were discussed. The first approach is optical magnification to reduce the inherent resolution to less than 50 l/mm in the second generation reproduction. This system has obvious disadvantages. The second approach is contact duplication using a high resolution printer and duplicating media which would include non-silver halide materials such as Diazo or Kalvar. A new Kalvar material has recently been produced which has increased speed and tonal scale. A detailed report of this material has been delivered to your office. Samples of this new material will be furnished to NPIC and tested. A proposal for a printing system using this new material and/or silver halide materials should be requested through proper channels to the several organizations in the commercial manufacturing field. NPIC, WADC, and several other government and military organizations are now aware of the need for a high resolution duplication system. It seems expeditious that this undertaking be a joint effort.

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2. On 26 July 1961, the undersigned visited the [REDACTED] to review with [REDACTED] the final specifications for the 10, 20, 40 Precision Enlarger. A copy of these revised specifications is now in your hands. Some detailed engineering drawings were approved by the contract monitor at this meeting. Release of all drawings for hardware is scheduled early next year and delivery of the first instrument approximately one year later. At the close of this meeting, some problems regarding the newly acquired microdensitometer were discussed with [REDACTED]. These problems had to do with operational procedures not covered in the course of instruction given by the [REDACTED].

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3. [REDACTED] was interested in our newly proposed chemical solution distribution and supply. He indicated that his company would be interested in preparing a proposal to NPIC to fabricate such a system and to do the necessary research chemistry in connection with setting up such a system. His off-the-cuff opinion was that this type of chemical supply would lend itself extremely well to an intermittent type operation and provide the maximum flexibility and choice of developer solutions. DMJM should be notified of [REDACTED] capability to prepare this study and proposal.

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NPIC/TP&DS: [REDACTED] : df(3591)